Year 11 Express Curriculum



Suggested content coverage for 2020/21

As the new Year 11 students missed a significant portion of Year 10, moving directly ahead with our Year 11 scheme of learning would be challenging. For example, some topics, such as Handling Data, are not as well represented in the Year 11 content.

We have therefore produced this Year 11 'Express Curriculum' to help guide teachers towards the key topics to prepare students for their examinations and for life beyond school. We have based this on 30 weeks of teaching including one consolidation week.

We expect students who are aiming for a grade 4 to concentrate almost entirely on material in the first column. Those aiming for 5/6 should be able to cover this more quickly and also cover the material in the middle column. Those aiming for the highest grades may need to cover some of the first column, but focus mainly on the second and third columns. This is a framework, and we would expect teachers to adapt it for the particular needs of their classes, making amendments based on ongoing assessment of students' needs.

Week	Topic	Aiming for a grade 4	Aiming for a grade 5/6	Aiming for a grade 7/8/9
1	Algebra 1	Simplifying expressionsSubstitutionSolving linear	 Linear Inequalities and number lines 	 Completing the square
2		equations	 Solve quadratics by factorisation 	
3	Fractions, decimals and percentages	FDP equivalenceCalculating percentages	Reverse percentages	Recurring decimals
4	Shape 1	Basic angle factsProperties of shapes	Bearings	• Circle theorems
5		 Interior and exterior angles 		

Week	Topic	Aiming for a grade 4	Aiming for a grade 5/6	Aiming for a grade 7/8/9
6	Number 1	 Four rules with integers and fractions Rounding and 	Roots and indicesLimits of accuracy	Fractional indicesUpper and lower bounds
7		Estimation • Directed number arithmetic		
8	Graphs	 Plot y = mx + c Interpret reallife graphs 	 Parallel lines Find the equation of a line Cubic and reciprocal graphs 	 Perpendicular lines
9		 Plot quadratics 		
10	Ratio and Proportion	Simplify ratiosShare in a ratioDirect	Use fractions in ratiosDensity and pressure	Equations with proportionGradients of
11		proportion	 Inverse proportion 	curves
12	Shape 2	 Perimeter and Area of 2-D shapes Volume and Surface Area of prisms 	 Arc length and the area of a sector. Volume of cones etc. Plans and elevations 	
13				
14		Consol	idation	

Week	Topic	Aiming for a grade 4	Aiming for a grade 5/6	Aiming for a grade 7/8/9
15	Data	Finding averagesCharts and graphs	Cumulative frequency graphsBox plots	• Histograms
16		 Recognise correlation 	 Lines of best fit 	
17	Algebra 2	 Laws of Indices Linear sequences 	Quadratic sequencesFactorise quadratics	 Geometric sequences Complex changing the subject of a formula Proof Functions
18		 Changing the subject of a formula 		
19	Pythagoras and Trigonometry	Find sides using PythagorasFind sides	• Use trig in 3-D	 Use sine and cosine rules Find the area of triangles using A = 1/2 ab sin C
20		and angles using trig ratios		
21	Probability	Single event probabilityListing outcomes	 Tree diagrams independent events 	·
22	Number 2	Calculate with percentagesConvert to/from	 Compound interest Growth and decay Calculate with standard form 	• Surds
23		standard formProduct of prime factors		

Week	Topic	Aiming for a grade 4	Aiming for a grade 5/6	Aiming for a grade 7/8/9
24	Transformations	 Perform reflections, rotations, translations 	 Negative and fractional enlargements Identify and describe 	 Transform graphs (include trig graphs here)
25		and positive enlargements	transformations	
26	Constructions	 Construct triangles 	 Construct bisectors 	• Loci
27	Algebra 3	Simultaneous linear equationsRead	 Simultaneous equations, one linear, one quadratic 	Quadratic inequalitiesIteration
28		solutions from graphs		
29	Vectors	 Add and subtract vectors 	 Multiply vectors by scalars 	Proof with vectors
30	Similarity	 Find missing sides in similar shapes Understand congruency 	 Solve complex similar triangles problems Recognise congruent triangles 	 Solve problems with similar areas and volumes Prove triangles are congruent

